

ESA Series LED Dimming Options

General Description

Our 0–10V dimming option provides access to multiple drive currents and provides the flexibility to utilize combinations of these currents to optimize lumen output and energy savings needs. As the product is dimmed all LEDs are operated at the same current for maximum longevity and lumen maintenance.

Unlike traditional source technologies, LED performance improves when dimmed in terms of efficacy, longevity and lumen maintenance. For example, a 525mA product dimmed to 52mA, which is 10% dimming, consumes only 12% of the energy, but provides 12% of the light output of the same product operating at 525mA. This powerful combination allows for the selection of luminaires capable of delivering high levels of sustainable illumination performance when desired, but with the ability to be dimmed to deliver lower levels of illumination when appropriate with even greater energy savings.

If dimming leads remain open (factory shipped), luminaire will run at full power.

The 0–10V dimming control interface is compliant with the IEC EN 60929 Annex E which establishes controls for fluorescent products.

Several commercially available network dimming control systems are being qualified for use with our dimming option. These are typically factory installed into the luminaire and are purchased with a complete control system, please consult factory for more details.

Compatible Controls

1. Leviton IP710-DLW
2. Lutron NOVA T*

0–10V Dimming Option – 525mA 120–277VAC

0 – 10V	Current (mA)	System Watts Multiplier	Lumen Multiplier
≤1.0	52	0.12	0.12
2.0	125	0.25	0.26
2.4	150	0.30	0.31
2.8	175	0.34	0.36
3.6	225	0.43	0.45
4.3	275	0.52	0.55
5.1	325	0.61	0.64
5.4	350	0.66	0.69
6.6	425	0.79	0.83
7.3	475	0.88	0.93
≥8.1	525	1.00	1.00

